

APPENDIX 250S-A

COST TABLES

Summary Working Alternatives 3, 3A(1-4)

Summary	Const. (\$)	Total Project ¹ (\$)	Total Project ² (\$)
Working Alternative 3³			
County Ownership	\$78,150,000	\$132,654,000	\$125,040,000
District Ownership	-	-	-
Total	\$78,150,000	\$132,654,000	\$125,040,000
Working Alternative 3A(1)⁴			
County Ownership	\$56,842,000	\$96,455,000	\$90,949,000
District Ownership	\$6,689,000	\$10,702,000	\$10,702,000
Total	\$63,531,000	\$107,157,000	\$101,651,000
Working Alternative 3A(1A)⁵			
County Ownership	\$45,602,000	\$77,380,000	\$72,965,000
Lift Station 11 & SR18 Interceptor	\$11,240,000	\$17,984,000	\$17,984,000
District Ownership	\$6,689,000	\$10,702,000	\$10,702,000
Total	\$63,531,000	\$106,066,000	\$101,651,000
Working Alternative 3A(2)⁶			
County Ownership	\$56,715,000	\$96,259,000	\$90,746,000
District Ownership	\$6,689,000	\$10,702,000	\$10,702,000
Total	\$63,404,000	\$106,961,000	\$101,448,000
Working Alternative 3A(3)⁷			
County Ownership	\$47,023,000	\$81,645,000	\$75,239,000
District Ownership	\$11,197,000	\$17,912,000	\$17,912,000
Total	\$58,220,000	\$99,557,000	\$93,151,000
Working Alternative 3A(4)⁸			
County Ownership	\$51,323,000	\$89,213,000	\$82,119,000
District Ownership	\$11,197,000	\$17,912,000	\$17,912,000
Total	\$62,520,000	\$107,125,000	\$100,031,000

¹District Allied Cost (60%) for District Facilities OR County 2003 Budget Model Allied Cost for County Facilities Except in Alt 3A(1A) where District Allied Cost is Applied to County Construction Cost Indicating County Ownership/District Construction for LS 11 and the SR18 Interceptor.

²District Allied Cost (60%) for All Facilities.

³All Facilities are Owned by the County/PS H Routed to Point E

⁴PS C and F Owned by District/PS B, D, and H Owned by County/SR18 and LS11 - Owned County & County Const/PS H routed to Point E

⁵PS C and F Owned by District/PS B, D, and H Owned by County/SR18 and LS11 - Owned County & District Const/PS H routed to Point E

⁶PS C and F Owned by District/PS B, D, H, SR18 Owned by County/PS H Routed to Point E

⁷PS C, F, LS11, and SR18 Int Owned by District/PS B, D, H Owned by County/PS H Routed to PS D via Power Line

⁸PS C, F, LS11, and SR18 Int Owned by District/PS B, D, H Owned by County/PS H Routed to PS D via 272nd

Working Alternative 3

Alternative Component	Proposed Action	Component Quantities				Cost		
		Pump Station		Pipeline		Construction (\$)	Total Project ² (\$)	Total Project ² (\$)
		Flow Rate (mgd)	Head (ft)	Size (in)	Length (ft)			
Pump Station F								
Pump Station	Regional Pump Station	12.3	152			\$4,950,000	\$8,401,000	\$7,920,000
Conveyance	Forcemain							
	Use Existing							
	Forcemain F (Parallel)			16	4,300	\$1,410,000	\$2,393,000	\$2,256,000
	Gravity Sewer							
				21	600	\$341,000	\$596,000	\$545,600
				24	2,060	\$1,370,000	\$2,325,000	\$2,192,000
				27	9,300	\$5,410,000	\$9,182,000	\$8,656,000
					Subtotal	\$13,481,000	\$22,897,000	\$21,569,600
Pump Station H								
Pump Station	Regional Pump Station	5.3	33			\$2,400,000	\$4,073,000	\$3,840,000
Conveyance	Forcemain							
	Forcemain H			12	1,000	\$282,000	\$493,000	\$451,200
	Gravity Sewer							
	Parallel			21	25,345	\$14,400,000	\$24,378,000	\$23,040,000
				18	8,110	\$3,210,000	\$5,448,000	\$5,136,000
				15	800	\$386,000	\$674,000	\$617,600
				12	370	\$146,000	\$255,000	\$233,600
				10	370	\$137,000	\$239,000	\$219,200
					Subtotal	\$20,961,000	\$35,560,000	\$33,537,600
Pump Station B								
Pump Station	Regional Pump Station	3.2	135			\$2,850,000	\$4,837,000	\$4,560,000
Conveyance	Forcemain							
	Forcemain B			16	9,600	\$3,210,000	\$5,448,000	\$5,136,000
	Gravity Sewer							
	None							
					Subtotal	\$6,060,000	\$10,285,000	\$9,696,000
Pump Station C								
Pump Station	Regional Pump Station	5.1				-		
	Interim	12	183			\$5,330,000	\$9,046,000	\$8,528,000
Conveyance	Forcemain							
	Use Existing Forcemain C							
					Subtotal	\$5,330,000	\$9,046,000	\$8,528,000
Pump Station D								
Pump Station	Regional Pump Station	28.9	151			\$8,870,000	\$15,054,000	\$14,192,000
Conveyance	Forcemain							
	Forcemain D			36	16,200	\$8,270,000	\$14,035,000	\$13,232,000
	Gravity Sewer							
				27	1,200	\$735,000	\$1,247,000	\$1,176,000
				42	4,130	\$3,330,000	\$5,651,000	\$5,328,000
					Subtotal	\$21,205,000	\$35,987,000	\$33,928,000
Lift Station 11/SR18 Interceptor								
Pump Station	Abandon/Decommission							
Conveyance	Forcemain							
	None							
	Gravity Sewer (SR18)							
	Microtunnel			42	6,120	\$8,230,000	\$13,967,000	\$13,168,000
	Open Cut			42	1,770	\$1,590,000	\$2,698,000	\$2,544,000
				24	625	\$394,000	\$688,000	\$630,400
				27	1,500	\$899,000	\$1,526,000	\$1,438,400
					Subtotal	\$11,113,000	\$18,879,000	\$17,780,800
Working Alternative 3 Total						\$78,150,000	\$132,654,000	\$125,040,000

¹District Allied Cost (60%) for District Facilities OR County 2003 Budget Model Allied Cost for County Facilities

²District Allied Cost (60%) for All Facilities.

All Costs are in 2002 Dollars

Working Alternative 3 Summary:

All Facilities are Owned by the County

Working Alternative 3A(1)								
Alternative Component	Proposed Action	Component Quantities				Cost		
		Pump Station		Pipeline		Construction (\$)	Total Project ¹ (\$)	Total Project ² (\$)
		Flow Rate (mgd)	Head (ft)	Size (in)	Length (ft)			
Pump Station F								
Pump Station	Local Lift Station	-	-			\$1,004,375	\$1,607,000	\$1,606,929
Conveyance	Forcemain							
	Use Existing							
	Forcemain F (Parallel)			-	-	\$2,465,563	\$3,944,900	\$3,944,900
	Gravity Sewer							
					Subtotal	\$3,470,000	\$5,552,000	\$5,552,000
Pump Station H								
Pump Station	Regional Pump Station	5.3	51			\$2,400,000	\$4,073,000	\$3,840,000
Conveyance	Forcemain							
	Forcemain H			12	1,000	\$282,000	\$493,000	\$451,200
	Gravity Sewer							
	Parallel			21	25,345	\$14,400,000	\$24,378,000	\$23,040,000
				18	8,110	\$3,210,000	\$5,448,000	\$5,136,000
				15	800	\$386,000	\$674,000	\$617,600
				12	370	\$146,000	\$255,000	\$233,600
				10	370	\$137,000	\$239,000	\$219,200
					Subtotal	\$20,961,000	\$35,560,000	\$33,538,000
Pump Station B								
Pump Station	Regional Pump Station	3.2	171			\$3,030,000	\$5,142,000	\$4,848,000
Conveyance	Forcemain							
	Forcemain B			12	5,426	\$1,530,000	\$2,597,000	\$2,448,000
	Gravity Sewer							
	Open Cut			12	2,538	\$780,000	\$1,324,000	\$1,248,000
				18	1,636	\$552,000	\$937,000	\$883,200
					Subtotal	\$5,892,000	\$10,000,000	\$9,428,000
Pump Station C								
D, H Pump Station	Local Lift Station	-	-			\$3,218,750	\$5,150,000	\$5,150,000
Conveyance	Interim							
	Forcemain							
	Use Existing Forcemain C							
					Subtotal	\$3,219,000	\$5,150,000	\$5,150,000
Pump Station D								
Pump Station	Regional Pump Station	19.6	163			\$7,140,000	\$12,118,000	\$11,424,000
Conveyance	Forcemain							
	Forcemain D			30	16,200	\$7,850,000	\$13,323,000	\$12,560,000
	Gravity Sewer							
				24	1,200	\$699,000	\$1,186,000	\$1,118,400
				36	4,130	\$3,060,000	\$5,193,000	\$4,896,000
					Subtotal	\$18,749,000	\$31,820,000	\$29,999,000
Lift Station 11/SR18 Interceptor								
Pump Station	Regional Pump Station	14.1	34			\$3,810,000	\$6,466,000	\$6,096,000
Conveyance	Forcemain							
	Forcemain LS 11			24	2,000	\$940,000	\$1,595,000	\$1,504,000
	Gravity Sewer (SR18)							
	Open Cut			30	4,950	\$2,640,000	\$4,480,000	\$4,224,000
				42	5,000	\$3,850,000	\$6,534,000	\$6,160,000
					Subtotal	\$11,240,000	\$19,075,000	\$17,984,000
					Working Alternative 3A(1) Total	\$63,531,000	\$107,157,000	\$101,651,000

¹District Allied Cost (60%) for District Facilities OR County 2003 Budget Model Allied Cost for County Facilities

²District Allied Cost (60%) for All Facilities.

All Costs are in 2002 Dollars

Working Alternative 3A(1) Summary:

PS C and F owned by District

PS B, D, H, SR18, & LS11 owned by County

PS H routed to Point E

Working Alternative 3A(1A)

Alternative Component	Proposed Action	Component Quantities				Cost		
		Pump Station		Pipeline		Construction (\$)	Total Project ¹ (\$)	Total Project ² (\$)
		Flow Rate (mgd)	Head (ft)	Size (in)	Length (ft)			
Pump Station F								
Pump Station	Local Lift Station	-	-			\$1,004,331	\$1,606,929	\$1,606,929
Conveyance	Forcemain							
	Use Existing							
	Forcemain F (Parallel)			-	-	\$2,465,563	\$3,944,900	\$3,944,900
	Gravity Sewer							
					Subtotal	\$3,470,000	\$5,552,000	\$5,552,000
Pump Station H								
Pump Station	Regional Pump Station	5.3	51			\$2,400,000	\$4,073,000	\$3,840,000
Conveyance	Forcemain							
	Forcemain H			12	1,000	\$282,000	\$493,000	\$451,200
	Gravity Sewer							
	Parallel			21	25,345	\$14,400,000	\$24,378,000	\$23,040,000
				18	8,110	\$3,210,000	\$5,448,000	\$5,136,000
				15	800	\$386,000	\$674,000	\$617,600
				12	370	\$146,000	\$255,000	\$233,600
				10	370	\$137,000	\$239,000	\$219,200
					Subtotal	\$20,961,000	\$35,560,000	\$33,538,000
Pump Station B								
Pump Station	Regional Pump Station	3.2	171			\$3,030,000	\$5,142,000	\$4,848,000
Conveyance	Forcemain							
	Forcemain B			12	5,426	\$1,530,000	\$2,597,000	\$2,448,000
	Gravity Sewer							
	Open Cut			12	2,538	\$780,000	\$1,324,000	\$1,248,000
				18	1,636	\$552,000	\$937,000	\$883,200
					Subtotal	\$5,892,000	\$10,000,000	\$9,428,000
Pump Station C								
Pump Station	Local Lift Station	-	-			\$3,218,750	\$5,150,000	\$5,150,000
Conveyance	Interim							
	Forcemain							
	Use Existing Forcemain C							
					Subtotal	\$3,219,000	\$5,150,000	\$5,150,000
Pump Station D								
Pump Station	Regional Pump Station	19.6	163			\$7,140,000	\$12,118,000	\$11,424,000
Conveyance	Forcemain							
	Forcemain D			30	16,200	\$7,850,000	\$13,323,000	\$12,560,000
	Gravity Sewer							
				24	1,200	\$699,000	\$1,186,000	\$1,118,400
				36	4,130	\$3,060,000	\$5,193,000	\$4,896,000
					Subtotal	\$18,749,000	\$31,820,000	\$29,999,000
Lift Station 11/SR18 Interceptor³								
Pump Station	Regional Pump Station	14.1	34			\$3,810,000	\$6,096,000	\$6,096,000
Conveyance	Forcemain							
	Forcemain LS 11			24	2,000	\$940,000	\$1,504,000	\$1,504,000
	Gravity Sewer (SR18)							
	Open Cut			30	4,950	\$2,640,000	\$4,224,000	\$4,224,000
				42	5,000	\$3,850,000	\$6,160,000	\$6,160,000
					Subtotal	\$11,240,000	\$17,984,000	\$17,984,000
	Working Alternative 3A(1A) Total					\$63,531,000	\$106,066,000	\$101,651,000

District Allied Cost (60%) for District Facilities OR County 2003 Budget Model Allied Cost for County Facilities Except for LS 11 and the SR18 Interceptor. District Allied Cost is Applied to County Construction Cost Indicating County Ownership/District Construction.

²District Allied Cost (60%) for All Facilities

³Constructed by the District, Owned and Operated by the County.
All Costs are in 2002 Dollars

Working Alternative 3A(1A) Summary:

PS C, and F owned by District
PS B, D, H, SR18, & LS11 owned by County
PS H routed to Point E

Working Alternative 3A(2)

Alternative Component	Proposed Action	Component Quantities				Cost		
		Pump Station		Pipeline		Construction (\$)	Total Project ¹ (\$)	Total Project ² (\$)
		Flow Rate (mgd)	Head (ft)	Size (in)	Length (ft)			
Pump Station F								
Pump Station	Local Lift Station	-	-			\$1,004,331	\$1,606,929	\$1,606,929
Conveyance	Forcemain							
	Use Existing							
	Forcemain F (Parallel)			-	-	\$2,465,563	\$3,944,900	\$3,944,900
	Gravity Sewer							
					Subtotal	\$3,470,000	\$5,552,000	\$5,552,000
Pump Station H								
Pump Station	Regional Pump Station	5.3	51			\$2,400,000	\$4,073,000	\$3,840,000
Conveyance	Forcemain							
	Forcemain H			12	1,000	\$282,000	\$493,000	\$451,200
	Gravity Sewer							
	Parallel			21	25,345	\$14,400,000	\$24,378,000	\$23,040,000
				18	8,110	\$3,210,000	\$5,448,000	\$5,136,000
				15	800	\$386,000	\$674,000	\$617,600
				12	370	\$146,000	\$255,000	\$233,600
				10	370	\$137,000	\$239,000	\$219,200
					Subtotal	\$20,961,000	\$35,560,000	\$33,538,000
Pump Station B								
Pump Station	Regional Pump Station	3.2	171			\$3,030,000	\$5,142,000	\$4,848,000
Conveyance	Forcemain							
	Forcemain B			12	5,426	\$1,530,000	\$2,597,000	\$2,448,000
	Gravity Sewer							
	Open Cut			12	2,538	\$780,000	\$1,324,000	\$1,248,000
				18	1,636	\$552,000	\$937,000	\$883,200
					Subtotal	\$5,892,000	\$10,000,000	\$9,428,000
Pump Station C								
Pump Station	Local Lift Station	-	-			\$3,218,750	\$5,150,000	\$5,150,000
	Interim							
Conveyance	Forcemain							
	Use Existing Forcemain C							
					Subtotal	\$3,219,000	\$5,150,000	\$5,150,000
Pump Station D								
Pump Station	Regional Pump Station	19.6	163			\$7,140,000	\$12,118,000	\$11,424,000
Conveyance	Forcemain							
	Forcemain D			30	16,200	\$7,850,000	\$13,323,000	\$12,560,000
	Gravity Sewer							
				24	1,200	\$699,000	\$1,186,000	\$1,118,400
				36	4,130	\$3,060,000	\$5,193,000	\$4,896,000
					Subtotal	\$18,749,000	\$31,820,000	\$29,999,000
Lift Station 11/SR18 Interceptor	County Facilities							
Pump Station	Abandon/Decomission							
Conveyance	Gravity Sewer (SR18)							
	Microtunnel			42	\$6,120	\$8,230,000	\$13,967,000	\$13,168,000
	Open Cut			42	\$1,770	\$1,590,000	\$2,698,000	\$2,544,000
				24	\$625	\$394,000	\$688,000	\$630,400
				27	\$1,500	\$899,000	\$1,526,000	\$1,438,400
					Subtotal	\$11,113,000	\$18,879,000	\$17,781,000
					Working Alternative 3A(2) Total	\$63,404,000	\$106,961,000	\$101,448,000

¹District Allied Cost (60%) for District Facilities OR County 2003 Budget Model Allied Cost for County Facilities

²District Allied Cost (60%) for All Facilities.

All Costs are in 2002 Dollars

Working Alternative 3A(2) Summary:

PS C, F owned by District
PS B, D, H, & SR18 owned by County
PS H routed to Point E. No LS 11

Working Alternative 3A(3)

Alternative Component	Proposed Action	Component Quantities				Cost		
		Pump Station		Pipeline		Construction (\$)	Total Project ¹ (\$)	Total Project ² (\$)
		Flow Rate (mgd)	Head (ft)	Size (in)	Length (ft)			
Pump Station F								
Pump Station	Local Lift Station	-	-			\$1,004,331	\$1,606,929	\$1,606,929
Conveyance	Forcemain							
	Use Existing							
	Forcemain F (Parallel)			-	-	\$2,465,563	\$3,944,900	\$3,944,900
	Gravity Sewer							
					Subtotal	\$3,470,000	\$5,552,000	\$5,552,000
Pump Station H								
Pump Station	Regional Pump Station	5.3	51			\$2,400,000	\$4,073,000	\$3,840,000
Conveyance	Forcemain							
	Forcemain H			12	1,000	\$282,000	\$493,000	\$451,200
	Gravity Sewer							
	Parallel (Power Line)			varies	35,245	\$19,700,000	\$33,351,000	\$31,520,000
					Subtotal	\$22,382,000	\$37,917,000	\$35,812,000
Pump Station B								
Pump Station	Regional Pump Station	3.2	171			\$3,030,000	\$5,421,000	\$4,848,000
Conveyance	Forcemain							
	Forcemain B			12	5,426	\$1,530,000	\$2,378,000	\$2,448,000
	Gravity Sewer							
	Open Cut			12	2,538	\$780,000	\$1,396,000	\$1,248,000
				18	1,636	\$552,000	\$988,000	\$883,200
					Subtotal	\$5,892,000	\$10,183,000	\$9,428,000
Pump Station C								
Pump Station	Local Lift Station	-	-			\$3,218,750	\$5,150,000	\$5,150,000
	Interim							
Conveyance	Forcemain							
	Use Existing Forcemain C							
					Subtotal	\$3,219,000	\$5,150,000	\$5,150,000
Pump Station D								
Pump Station	Regional Pump Station	19.6	163			\$7,140,000	\$12,774,000	\$11,424,000
Conveyance	Forcemain							
	Forcemain D			30	16,200	\$7,850,000	\$14,045,000	\$12,560,000
	Gravity Sewer							
				24	1,200	\$699,000	\$1,251,000	\$1,118,400
				36	4,130	\$3,060,000	\$5,475,000	\$4,896,000
					Subtotal	\$18,749,000	\$33,545,000	\$29,999,000
PS C, F, LS11, and SR18 Int Owned by District/PS B, D, H Owned by County/PS H Routed to PS D via Power Line								
Lift Station 11/SR18 Interceptor	Local Lift Station							
Pump Station	Modify for Low Head Service	-	-			\$1,121,000	\$1,792,200	\$1,792,200
Conveyance	Forcemain							
	Forcemain LS 11 & SR18 GS			-	-	\$3,387,000	\$5,417,800	\$5,417,800
					Subtotal	\$4,508,000	\$7,210,000	\$7,210,000
					Working Alternative 3A(3) Total	\$58,220,000	\$99,557,000	\$93,151,000

¹District Allied Cost (60%) for District Facilities OR County 2003 Budget Model Allied Cost for County Facilities

²District Allied Cost (60%) for All Facilities.

Working Alternative 3A(3) Summary:

PS C, F, LS 11, & SR18 GS owned by District

PS B, D, & H owned by County

PS H Conveyance to PS D via Power Line

Working Alternative 3A(4)

Alternative Component	Proposed Action	Component Quantities				Cost		
		Pump Station		Pipeline		Construction (\$)	Total Project ¹ (\$)	Total Project ² (\$)
		Flow Rate (mgd)	Head (ft)	Size (in)	Length (ft)			
Pump Station F								
Pump Station	Local Lift Station	-	-			\$1,004,331	\$1,606,929	\$1,606,929
Conveyance	Forcemain							
	Use Existing							
	Forcemain F (Parallel)			-	-	\$2,465,563	\$3,944,900	\$3,944,900
	Gravity Sewer							
		Subtotal				\$3,470,000	\$5,552,000	\$5,552,000
Pump Station H								
Pump Station	Regional Pump Station	5.3	51			\$2,400,000	\$4,073,000	\$3,840,000
Conveyance	Forcemain							
	Forcemain H			12	1,000	\$282,000	\$493,000	\$451,200
	Gravity Sewer							
	Parallel (SE 272nd St)			varies	49,420	\$24,000,000	\$40,631,000	\$38,400,000
		Subtotal				\$26,682,000	\$45,197,000	\$42,692,000
Pump Station B								
Pump Station	Regional Pump Station	3.2	171			\$3,030,000	\$5,385,000	\$4,848,000
Conveyance	Forcemain							
	Forcemain B			12	5,426	\$1,530,000	\$2,719,000	\$2,448,000
	Gravity Sewer							
	Open Cut			12	2,538	\$780,000	\$1,386,000	\$1,248,000
				18	1,636	\$552,000	\$981,000	\$883,200
		Subtotal				\$5,892,000	\$10,471,000	\$9,428,000
Pump Station C								
Pump Station	Local Lift Station	-	-			\$3,218,750	\$5,150,000	\$5,150,000
	Interim							
Conveyance	Forcemain							
	Use Existing Forcemain C							
		Subtotal				\$3,219,000	\$5,150,000	\$5,150,000
Pump Station D								
Pump Station	Regional Pump Station	19.6	163			\$7,140,000	\$12,774,000	\$11,424,000
Conveyance	Forcemain							
	Forcemain D			30	16,200	\$7,850,000	\$14,045,000	\$12,560,000
	Gravity Sewer							
				24	1,200	\$699,000	\$1,251,000	\$1,118,400
				36	4,130	\$3,060,000	\$5,475,000	\$4,896,000
		Subtotal				\$18,749,000	\$33,545,000	\$29,999,000
PS C, F, LS11, and SR18 Int Owned by District/PS B, D, H Owned by County/PS H Routed to PS D via Power Line								
P Lift Station 11/SR18 Interceptor	Local Lift Station							
Pump Station	Modify for Low Head Service	-	-			\$1,121,000	\$1,792,200	\$1,792,200
Conveyance	Forcemain							
	Forcemain LS 11 & SR18 GS			-	-	\$3,387,000	\$5,417,800	\$5,417,800
		Subtotal				\$4,508,000	\$7,210,000	\$7,210,000
		Working Alternative 3A(4) Total				\$62,520,000	\$107,125,000	\$100,031,000

¹District Allied Cost (60%) for District Facilities OR County 2003 Budget Model Allied Cost for County Facilities

²District Allied Cost (60%) for All Facilities.

Working Alternative 3A(4) Summary:

PS C, F, LS 11, & SR18 GS owned by District

PS B, D, & H owned by County

PS H Conveyance to PS D via SE 272nd St

